

WE CLAIM

1. A method of creating thermal functional designs of textiles and clothing using a computer and visual display monitor controlled by the computer, the method comprising supplying the computer with information from data bases relating to biomechanical and structural characteristics of a human body and structural and mechanical characteristics of chosen textile materials for computational simulation of the information, and creating visual images for the monitor showing modules of structural functional designs.

2. The method according to claim 1, in which the database of the human body comprises human model data for specific body functions, including size and shape.

3. The method according to claim 1, in which the database of the garments comprises clothing patterns data and product specification data.

4. The method according to claim 1, in which the database of the human body comprises mechanical property data, including clothing biomechanical and mechanical comfort data.

5. The method according to claim 1, in which the database of the textile materials comprises structural

and mechanical property data, including fibres, yarns, fabrics and garments.